

HARRIS COUNTY . HOUSTON, TEXAS

CITY, STATE & LOCAL GOVERNMENT: SQ. FT. SERVED, 2.3 MILLION COOLING CAPACITY / TONS, 7,200 - HEATING CAPACITY / BTU, 100 MILLION

Type of Service:

District Cooling and Heating Facility Chilled Water and Steam Distribution Systems

Project Start Date: 1996

Harris County Profile:

Harris County is a vibrant part of the 10th largest metropolitan statistical area in the U.S., with 3.7 million people across seven counties. Not only is its port the second busiest in the country, but Harris County is also the home of NASA, ten colleges and universities and 36 museums.

Sempra Energy Solutions' Role:

Our role includes engineering, design, general construction and management of a new central plant serving ten buildings in this unique district energy environment.

Project Scope:

Harris County selected Sempra Energy Solutions to design and construct a central cooling and heating plant in downtown Houston. The plant serves the heating and cooling needs of the Criminal Courts Building, Civil Courts Building, the Drug Building, Administration Building, Franklin Street Jail, Criminal Justice Center Building, Family Law Building, District Attorney Building, Congress Plaza, the Lomas Nettleton Building and the Baker Street Jail. The new central plant is connected to the buildings spread across nine blocks by utilizing existing utility tunnels and new piping.

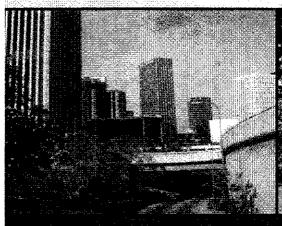
Energy Equipment:

Cooling & Heating

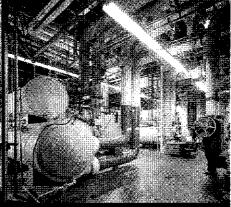
New 7,500-ton cooling and 4,500 hp steam heating central plant equipment

For more information please call us at 1-877-2SEMPRA









BUNKER HILL DISTRICT ENERGY PLANT LOS ANGELES, CALIFORNIA
COMMERCIAL REAL ESTATE: SQ. FT. SERVED, 7 MILLION COOLING CAPACITY/TONS, 14,500 CENTRAL PLANT SQ/FT, 10,000

Type of Service:

District Heating and Cooling

• Project Start Date: 1966

Bunker Hill Profile:

The Bunker Hill Redevelopment Project spearheaded the revitalization and commercial expansion of downtown Los Angeles. This commercial high-rise complex includes the Bonaventure Hotel, BP Tower, Cal Plaza, The Gas Tower, Colburn School, the Museum of Contemporary Art (MOCA), two apartment complexes, one condominium complex and Union Bank of California.

Sempra Energy Solutions' Role:

We are responsible for the development, ownership and operations of a cost-effective centralized heating and cooling energy service facility.

Project Scope:

Sempra Energy Solutions oversees the 40,000 sq. ft. complex that provides chilled and hot water energy services 24 hours a day, seven days a week to nine downtown buildings. The Class-A office, museum, apartment, condominium and hotel space totals almost seven million square feet.

Energy Equipment:

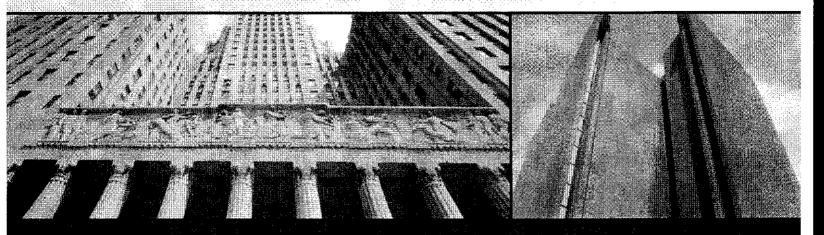
Cooling

- Two 5,000-ton Carrier centrifugal chillers
- Three 1,500-ton Worthington centrifugal chillers, each driven by a 1,650-hp Nordbert natural gas/fuel oil combustion engine
- One 3-cell, 36,000-gpm, Ecodyne-induced draft cooling tower
- Two new 2,500-ton Trane duplex chillers

Steam & Hot Water

- One 40 million-Btu/hr and two 30 million Btu/hr hot water boilers





CITY OF BUFFALO . BUFFALO, NEW YORK

CITY, STATE & LOCAL GOVERNMENT: SQ. FT. SERVED, 3 MILLION - PERFORMANCE CONTRACT, 15 YEARS

Type of Service:

Energy Savings Performance Contract Program

Project Start Date:

Implementation Phase 1994 - 2002 Performance Phase 1995 - 2010

City of Buffalo Profile:

USA Today named Buffalo, the second-largest city in New York State, the winner of its 2001 "City with a Heart" contest. Buffalo is also known as "The City of Good Neighbors," and its world class art gallery, diverse museums, centrally located Olmstead-designed park, and major and minor league sports teams are part of a creative and exciting atmosphere. Since 1996, Buffalo has been recognized by the National Civic League as an "All-America City," a designation that honors exemplary civic spirit in a select number of U.S. communities.

Sempra Energy Solutions' Role:

Our role in this extensive energy savings project includes energy auditing, design, engineering and project management for 95 city buildings including the City Hall, ice rinks, fire stations, police stations, museums and community centers.

Project Scope:

The City of Buffalo initially launched an energy conservation program with Sempra Energy Solutions for just two buildings. Since then, 95 buildings have been integrated into a city-wide energy efficiency program that extends across many departments, including the Sewer Authority, Public Works, the Housing Authority and the Board of Education. Sempra Energy Solutions reduced the city's largest individual energy load, producing significant energy savings every year.

Energy Equipment:

Coolina

Motor and HVAC control retrofits in 68 buildings

Steam & Hot Water

- City Hall stack economizer back-up boiler
- District Heat back-up heat exchanger

Water Treatment

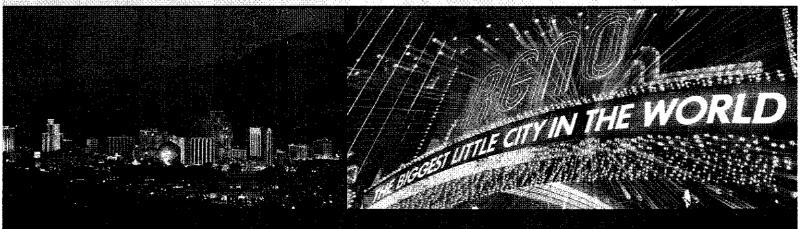
- 800 hp variable speed drive installed for municipal water supply pumping station

Electrical & Controls

- Comprehensive lighting retrofit
- Energy Management Control Systems (EMCS)
 upgrades
- Smart Pumping retrofit and low emissive ceiling for ice rinks

For more information please call us at 1–877–2SEMPRA





CITY OF RENO * RENO, NEVADA

CITY, STATE & LOCAL GOVERNMENT: SQ. FT. SERVED, 733,000 . GUARANTEED SAVINGS PROJECT, 3 YEARS

Type of Service:

Energy Savings Performance Contract (ESPC)

Project Start Date:

Implementation Phase 1998 Performance Phase 2000

City of Reno:

"The Biggest Little City in the World", Reno is ranked one of the top 25 in Forbes/Milken 2002 Best Places for Business and Careers in America. Located in the majestic Sierra Nevada Mountains, the city supports a successful mix of economic diversification and quality of life. From the arts to the cultural splendor, from the casinos to its unprecedented natural surroundings, Reno is a city rich in both tradition and entertainment.

Sempra Energy Solutions' Role:

Our Energy Savings Performance Contract involves lighting retrofits in 97 Buildings, Solar Panel installations, cover for the municipal pool, chiller replacements and an Energy Management System installation in 8 city-owned buildings. The project also includes energy auditing, project management, Measurement and Verification (M&V) and technical assistance to the city for the 3-year term.

Project Scope:

Guaranteed by Sempra Energy Solutions, the energy savings generated by the program pays

the cost of implementing the project. With the installation of new mechanical systems and Direct Digital controls, the city of Reno can expect significant improvements to environmental conditions within city-owned facilities. The City's facility maintenance staff controls the mechanical equipment operations through the Energy Management System from a single location. In addition to the improvements in heating and cooling, the lighting retrofits will enhance the quality of the light for the building occupants.

Energy Equipment:

Cooling

- Installation of 100-ton chiller at Public Safety
 Center
- Installation of VAV HVAC system at Public Safety Center

Steam & Hot Water

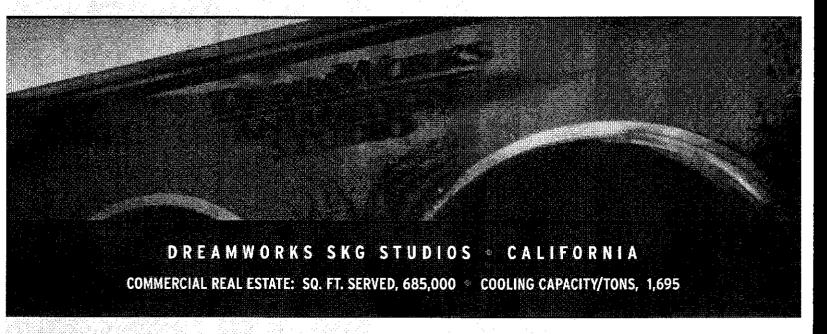
- Installation of Variable Frequency Devices
 (VFDs) on hot water and chilled water pump motors for 7 buildings
- Installation of solar water heating panels in municipal swimming pool

Electrical & Controls

- Lighting retrofits in 107 buildings, including HVAC/EMS in 8 buildings
- Installation of EMS controls at Public Safety
 Center and seven other buildings

For more information please call us at 1-877-2SEMPRA





Type of Service:

Own, operate, maintain and provide commodity procurement for the Energy Infrastructure

• Project Start Date: 1997

DreamWorks SKG Profile:

DreamWorks SKG developed its flagship Animation Studio complex located in Glendale, California in 1997. Its five-building campus has supported the development of such animated features as "Chicken Run," "El Dorado" and "Prince of Egypt." In addition, DreamWorks SKG operates eight other facilities throughout California.

Sempra Energy Solutions' Role:

We are responsible for the development, ownership, operation, maintenance and energy procurement of the Glendale campus' energy infrastructure, as well as operations and maintenance services at the eight other DreamWorks locations.

Project Scope:

Sempra Energy Solutions developed and managed the on-time completion of the facilities' energy infrastructure project, including the construction of a 1,200-ton central plant, as well as the in-building air-handling system, an energy management and control system, and the emergency electrical generation and distribution system. We provide full facility operations and maintenance services for lighted and conditioned powered space, including mechanical, electrical, plumbing and other facility services.

Energy Equipment:

Cooling

- Three chillers totaling 1,200 tons of cooling capacity

Steam & Hot Water Treatment

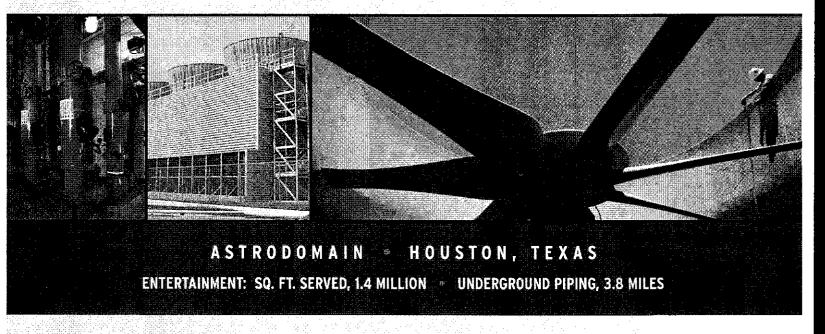
- Plentiful boiler capacity to supply domestic water

Electrical & Controls

- -1,250 kW of emergency electrical generating capability
- State of the art energy management system with direct digital control of all field devices

For more information please call us at 1-877-2SEMPRA





Type of Service:

Central Heating and Cooling Facility

Project Start Date: 2000

Astrodomain Profile:

Houston's premier tradeshow, convention, sports and entertainment facility features three independent buildings formerly known as Reliant Hall, Reliant Center, Reliant Stadium (home of the NFL's Houston Texans, and the Houston Livestock Show and Rodeo), and is next to "the Eighth Wonder of the World," Houston's 69,500-seat Astrodome. This venue is one of the most versatile complexes in the world."

Sempra Energy Solutions' Role:

Our role included the design and construction of a new state-of-the-art central plant and distributions system, enhancing the unique experience in and around the stylish complex.

Project Scope:

Sempra Energy Solutions' new, robust cooling and heating plant serves the new Center and Stadium, delivering 38° F chilled water and 200° F heated water for use in the Stadium and Center. During football games, rodeo roundups or other events, the plant can supply enough energy to heat and cool the equivalent of 6,000 Texas homes.

Energy Equipment:

Cooling

- Ten 1,900-ton centrifugal chillers
- One 38,000-GPM cooling tower with five cells

Hot Water

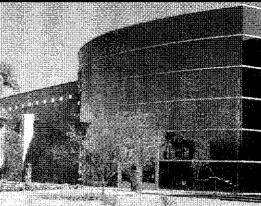
- Three 1,200-hp hot water boilers
- One 300-hp hot water boiler

Electrical & Controls

Variable pumping systems









ARIZONA STATE UNIVERSITY - EAST CAMPUS *

MESA, ARIZONA

COLLEGES & UNIVERSITIES: SQ. FT. SERVED, 409,900 PERFORMANCE CONTRACT, 11 YEARS

Type of Service: Energy Savings Performance Contract

Project Start Date: 2000

Arizona State University East Campus Profile:

Arizona State University (ASU) is a leading international center for research and technological advancement. ASU East, a former military base and one of three Arizona State University campuses with its 21 buildings is home to the College of Technology and Applied Sciences, as well as the Morrison School of Agribusiness and Resources Management, ASU East provides many of the features of a small college in a rural area while offering access to the resources of a major research university and the amenities of a large metropolitan area.

Sempra Energy Solutions' Role:

We are responsible for the auditing, modeling, engineering design, construction, training, management, energy conservation measurement and verification (M&V) of this comprehensive energy savings project.

Project Scope:

Sempra Energy Solutions converted ASU's East Campus into an energy-efficient university setting including the retrofit of nearly 5,000 light fixtures, the replacement of aging heating, ventilation and conditioning equipment, as well as the upgrade of energy-control systems.

Energy Equipment:

Cooling & Heating

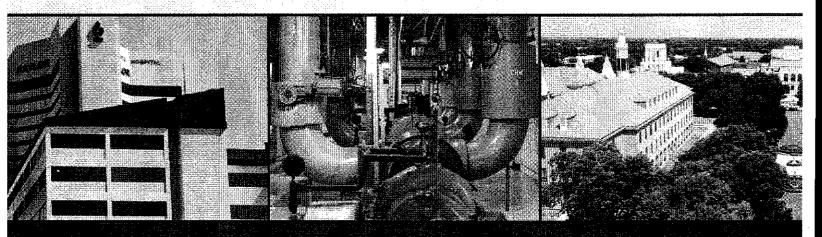
- 250 and 190 ton chiller replacements with CFC compliant units
- 7.5 ton dedicated cooling unit for computer facility
- Air side economizer modification and recommissioning
- New makeup air units, tempering units and heating system

Electrical & Controls

- Retrofit of Energy Management Control System to BACnet compatible open protocol with DDC and Ethernet networking
- Variable frequency drives to Air Handling Units (AHUs) and pumps
- Optimized time of day scheduling and programming

For more information please call us at 1-877-2SEMPRA





BAYLOR UNIVERSITY . WACO, TEXAS

COLLEGES & UNIVERSITIES: SQ. FT. SERVED, 3.7 MILLION PERFORMANCE CONTRACT, 10 YEARS

Type of Service:

Energy Savings Performance Contract

Project Start: 1998

Baylor University Profile:

Chartered in 1845 by the Republic of Texas, Baylor is the oldest institution of higher learning in the state and the largest Baptist University in the world. While remaining true to its heritage, Baylor has grown to more than 13,000 students with 90 buildings. The 432-acre campus is located on the banks of the Brazos River in Waco, Texas.

Sempra Energy Solutions' Role:

Our role encompasses the development, design and construction of a campus-wide energy savings project.

Project Scope:

Sempra Energy Solutions implemented a massive upgrade of Baylor's central plant, chilled water system with over 4,500 tons of cooling capacity, steam distribution system and a campus-wide lighting retrofit. The university, with over 90 buildings, was able to make major improvements to their utility infrastructure and prepare the school for future expansion.

Energy Equipment:

Cooling

- Cooling tower replacement
- CHP turbine inlet air pre-cooler
- Air volume modification
- Air side economizer
- New 1,500-ton absorption chiller
- 2,000-ton and 1,000-ton electric chiller replacements
- Variable frequency drives added to chilled water pump motors

Steam & Hot Water

- New 70,000 lb/hr waste heat boiler with companion deaerator
- Heat recovery steam generator replacement
- Steam traps added to existing lines

Electrical & Controls

- Comprehensive campus wide lighting retrofit upgrading 50,000 lighting fixtures
- Variable speed drives
- Time of day scheduling
- Energy management/control system expansion

For more information please call us at 1-877-2SEMPRA